

VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM
(Deemed to be University)

MBBS DEGREE EXAMINATION – August 2019

Second Year

MICROBIOLOGY - PAPER II

SECTION A

Time: Fifteen Minutes

Maximum: 15 marks

Register Number :

--	--	--	--	--	--	--	--	--	--

Signature of the candidate

Signature of the Invigilator

Instructions to the candidates

1. Write your Register Number and sign at the place specified on the first page of this Question Booklet.
2. Do not open this question booklet until Invigilator announces the commencement of the examination.
3. Answer ALL the Fifteen questions. They carry equal marks. No negative marking for wrong answers.
4. Answers should be marked legibly in the SHEET provided in capital letters.
5. THE QUESTION BOOKLET SHOULD NOT BE TAKEN OUT OF THE EXAMINATION HALL.
6. Questions should not be copied and taken out of the Examination Hall. Any one found violating this rule shall not be permitted to write the examination and shall be sent out of the Hall.
7. At the end of 15 minutes, when the Invigilator announces 'STOP WRITING' you must stop writing immediately. If the candidate tries to attempt to answer the questions after the prescribed time, their answer script becomes invalid.
8. Hand over the questions booklet containing answer sheet to the invigilator when you finish answering or immediately after 15 minutes.

MICROBIOLOGY - PAPER II

SECTION-A (15X1-15 MARKS)

(Multiple choice questions)

Time: Fifteen Minutes

Maximum: 15 marks

Select the most appropriate answer and answer in the answer sheet attached:

1. The following viruses are DNA viruses except
 - A. Pox virus
 - B. Hepatitis B virus
 - C. Herpes virus
 - D. Rota virus

2. Adeno virus serotype 40, 41 causes
 - A. Hemorrhagic cystitis
 - B. Epidemic keratoconjunctivitis
 - C. Diarrhoea and vomiting
 - D. Acute follicular conjunctivitis

3. Coxsackie B virus produces the following except
 - A. Bornholm disease
 - B. Herpangina
 - C. Myocarditis
 - D. Pericarditis

4. Subacute sclerosing pan encephalitis (SSPE) is a late complication of
 - A. Measles
 - B. Mumps
 - C. Rubella
 - D. West Nile virus

5. Reynolds Braude phenomenon is used for the identification of
 - A. Trichosporon
 - B. Cryptococcus
 - C. Geotrichium
 - D. Candida albicans

(p.t.o.)

6. The following are geophilic dermatophytes EXCEPT
- A. *Microsporum gypseum*
 - B. *Microsporum canis*
 - C. *Microsporum fulvum*
 - D. *Trichophyton ajelloi*
7. Tuberculate spore is the characteristic feature of
- A. *Coccidioides immitis*
 - B. *Blastomyces dermatitidis*
 - C. *Histoplasma capsulatum*
 - D. *Sporothrix schenckii*
8. The protozoan which has no cystic stage
- A. *Entamoeba coli*
 - B. *Entamoeba hartmanni*
 - C. *Endolimax nana*
 - D. *Trichomonas vaginalis*
9. Schuffner's dots are seen in RBCs in infection with
- A. *Plasmodium vivax*
 - B. *P.falciparum*
 - C. *P.malariae*
 - D. *P.ovale*
10. Anemia is seen as presenting symptom in the following parasitic infection
- A. *Ancylostoma duodenale*
 - B. *Ascaris lumbricoides*
 - C. *Trichiura trichuris*
 - D. *Wuchereria bancrofti*
11. Calabar swelling is produced by
- A. *Mansonella ozzardi*
 - B. *Onchocerca volvulus*
 - C. *M.streptocerca*
 - D. *Loa loa*

12. The parasite causing hematuria is
- A. Schistosoma haematobium
 - B. S.japonicum
 - C. S.mansoni
 - D. Paragonimus westermani
13. MDR TB is treated by the following drugs EXCEPT
- A. Quinolones
 - B. Macrolides
 - C. Para aminosalicylic acid
 - D. Rifampicin
14. Prevention of MRSA outbreaks in hospitals is by the following measures, EXCEPT
- A. Repeated cultures
 - B. Barrier nursing
 - C. Hand washing
 - D. Isolation of the patient
15. Microbiological and laboratory waste are collected in which of the colour coded bag
- A. Yellow
 - B. Red
 - C. Blue
 - D. Black

(Sl.No. M21459)

**VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM.
(Deemed to be University)**

MBBS DEGREE EXAMINATION – August 2019

Second Year

MICROBIOLOGY – PAPER II

Time : Three hours

Maximum : 80 marks

Answer ALL Questions

Answer Section A in the Answer Sheet attached to it 15 marks – 15 minutes to be handed over to the invigilator immediately after 15 minutes

Answer Section B in the same answer book

Time : 2 hours 45 minutes

SECTION – B

Maximum : 65 marks

I. Write essays on : (2 x 15 = 30)

1. a) Classify and enumerate Hepatitis viruses. (3)
- b) What is the incubation period of Hepatitis B virus and routes of spread of Hepatitis B virus? (2)
- c) Describe the clinical and serological events occurring in a patient with acute HBV infection with diagram. (5)
- d) Describe the lab diagnosis and prophylaxis of HBV infection. (5)
2. a) Enumerate any four parasites found in human blood. (2)
- b) Describe the morphology and life cycle of *Wuchereria bancrofti*. (5)
- c) Write in detail about the specimen collection, laboratory diagnosis, treatment and prophylaxis of filariasis. (8)

II. Short notes on : (5 x 5= 25)

3. Pathogenesis of rabies.
4. Viruses causing gastroenteritis
5. Histoplasmosis
6. Kala-azar
7. Biomedical waste management.

III. Answer briefly on : (5 x 2 = 10)

8. Polio vaccines.
9. *Candida albicans*
10. Cryptococcal meningitis
11. Catheter associated urinary tract infection (CAUTI)
12. Casoni's test.
